

IN THE CLAIMS:

Please cancel Claims 1-6 and 8-11 without prejudice or disclaimer of the subject matter recited therein.

Please amend Claim 7 and add new Claims 12 and 13.

Claims 1-6. (Cancelled).

7. (Currently Amended) A detection method for detecting a plurality of different substances contained in a specimen using a label, characterized by comprising sequentially the steps of:

introducing flowing the specimen into a channel through a detecting element having a plurality of different first substance trapping portion portions for specifically trapping the plurality of different substances, respectively, to trap the substances in the substance trapping portions immobilizing a first substance trapping body for specifically trapping a first substance contained in the specimen, a second substance trapping portion immobilizing a second substance trapping body for specifically trapping a second substance contained in the specimen, the second substance being different from the first substance, and a channel;

flowing a solution containing the label through the first substance trapping portion immobilizing the first substance trapping body and the second substance trapping portion immobilizing the second substance trapping body;

flowing a solution for generating a signal from the label through the first substance trapping portion immobilizing the label such that a first layer of flow through the first substance trapping portion and a second layer of flow through the second substance trapping portion coexist and that the solution for generating a signal from the label forms the first layer of flow, to thereby acquire a signal from the first substance trapping portion; and

flowing a solution for generating a signal from the label through the second substance trapping portion immobilizing the label such that a first layer of flow through the first substance trapping portion and a second layer of flow through the second substance trapping portion coexist and that the solution for generating a signal from the label forms the second layer of flow, to thereby acquire a signal from the second substance trapping portion.

forming a plurality of layers of flow of a fluid in the channel; and  
switching and passing the fluid forming the plurality of layers of flow;  
to acquire independent information on each of the substances in the specimen through an action between the fluid and the trapped substance;

Claims 8-11. (Cancelled).

12. (New) A detection method according to claim 7, wherein the label is an enzyme and the solution for generating a signal from the label is a solution containing a substrate for the enzyme.

13. (New) A detection method according to claim 7, wherein the label is pH-sensitive fluorescent dye and the solution for generating a signal from the label is a solution having a pH which changes a fluorescent characteristic of the pH-sensitive fluorescent dye.